



ASSESSMENT OF MENSTRUAL PATTERN IN WOMEN POST COVID-19 VACCINATION: AN OBSERVATIONAL STUDY

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INTRODUCTION

- COVID-19 Vaccination drive started in India in Jan,2021
- Started with COVISHIELD and COVAXIN and now various brands are available
- Commonly reported side effects– Fever, Myalgia, Sore arm etc.
- No study till date in India has analyzed the effect of COVID-19 vaccination on menstruation
- Menstrual changes were reported in 20% of women in a case control study in UK

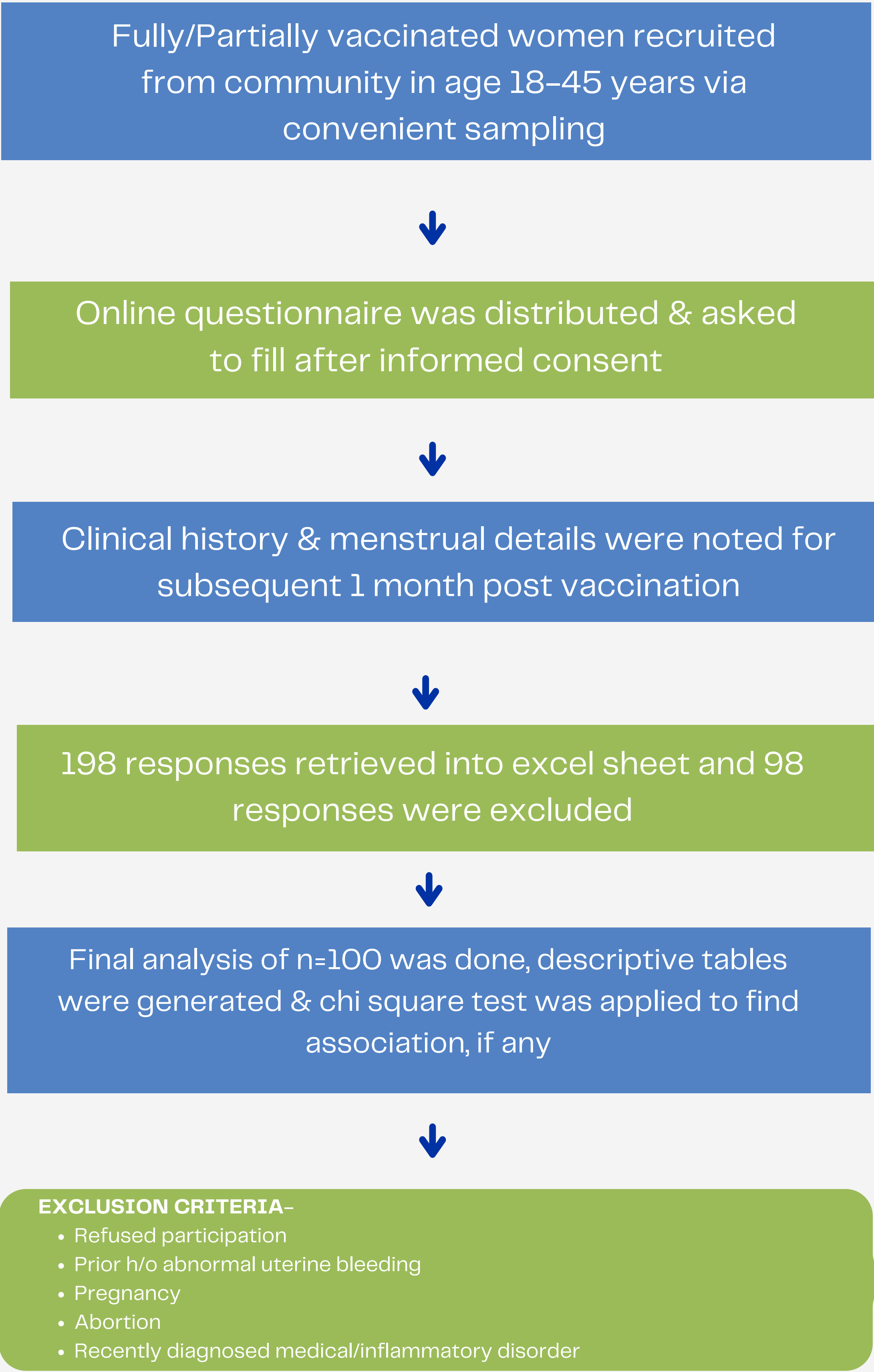
AIM & OBJECTIVE

Aim– To assess menstrual pattern in women in subsequent one month post COVID-19 vaccination

Objective–

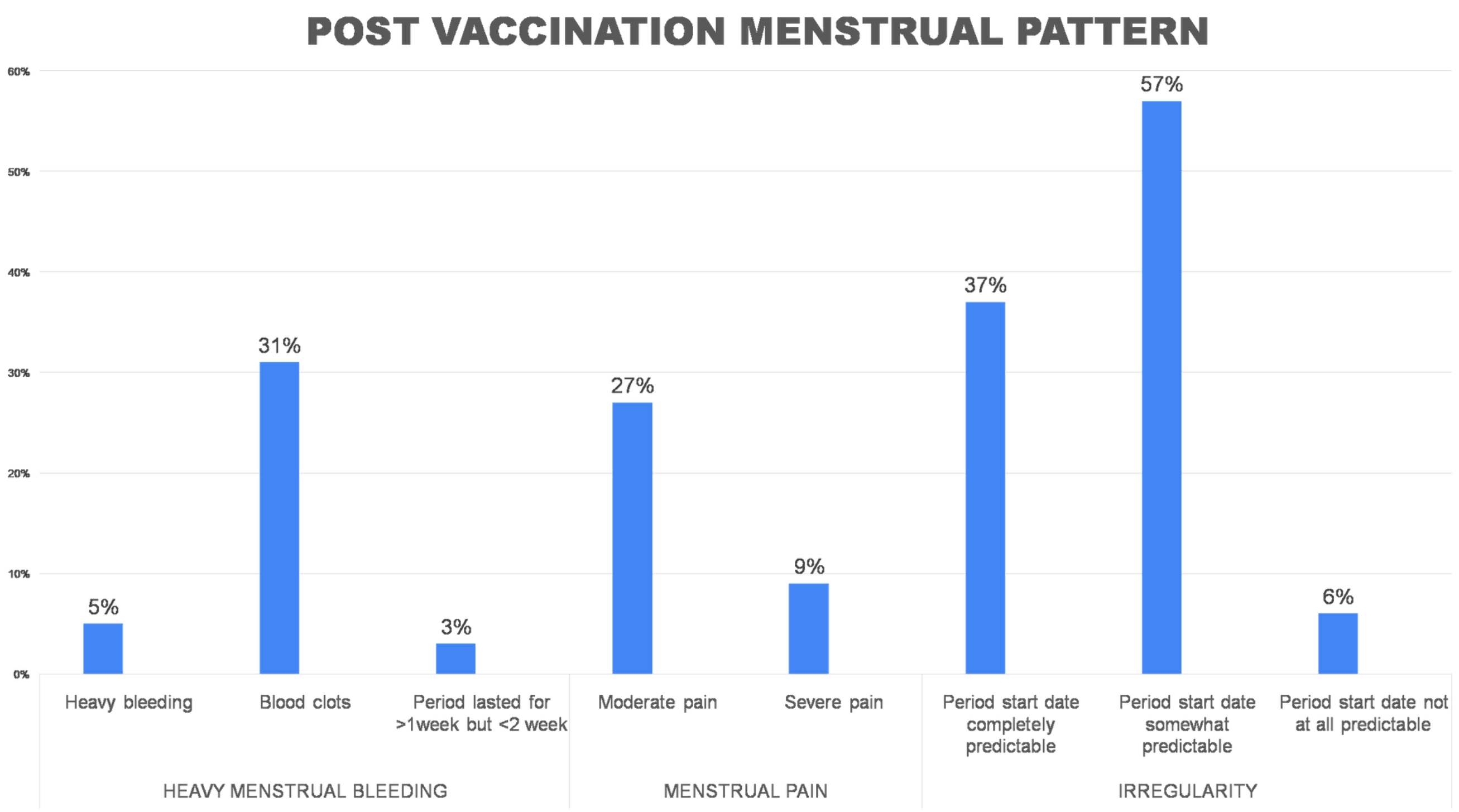
- To assess the incidence of heavy bleeding & menstrual irregularity post COVID-19 vaccination

METHODOLOGY

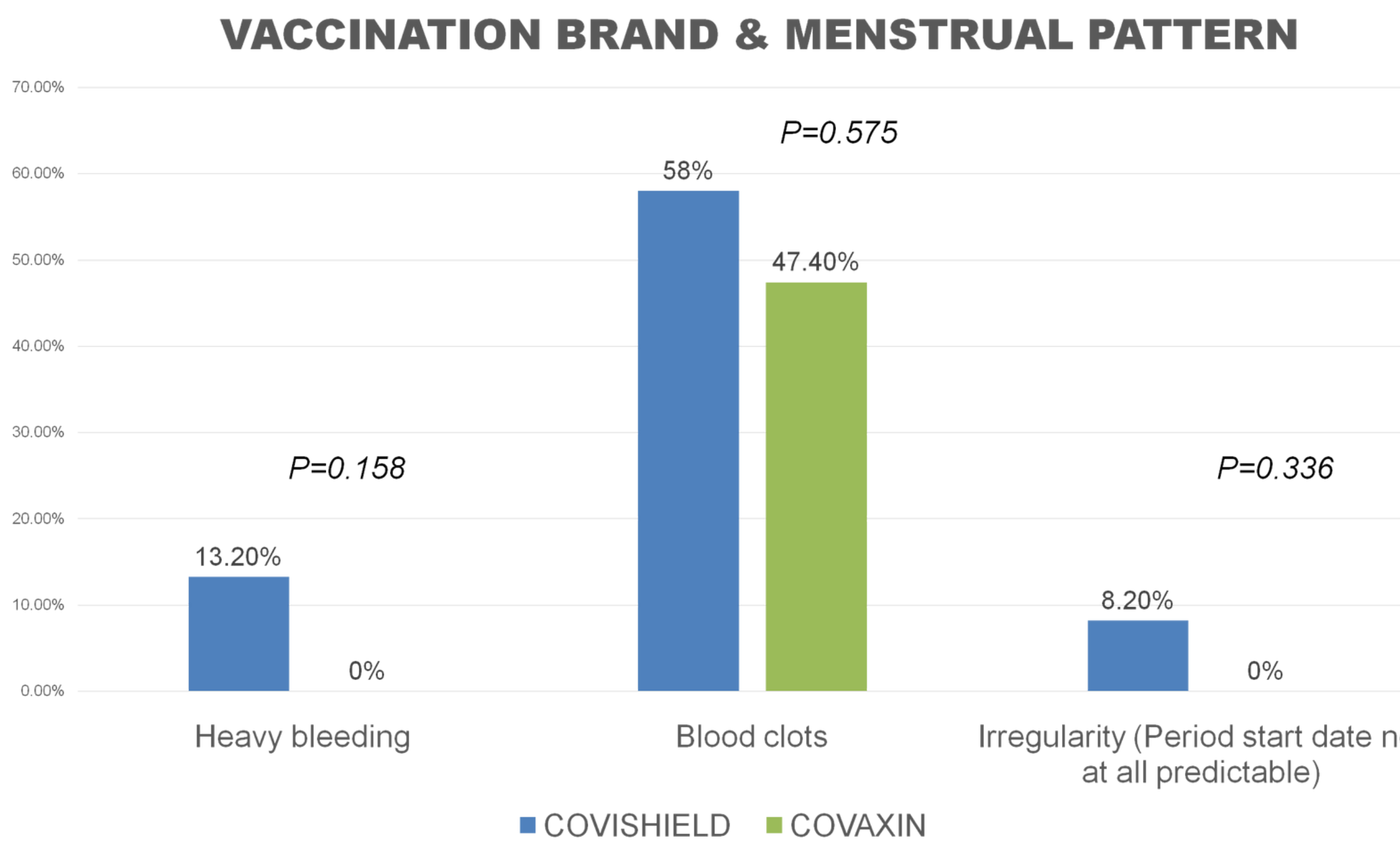
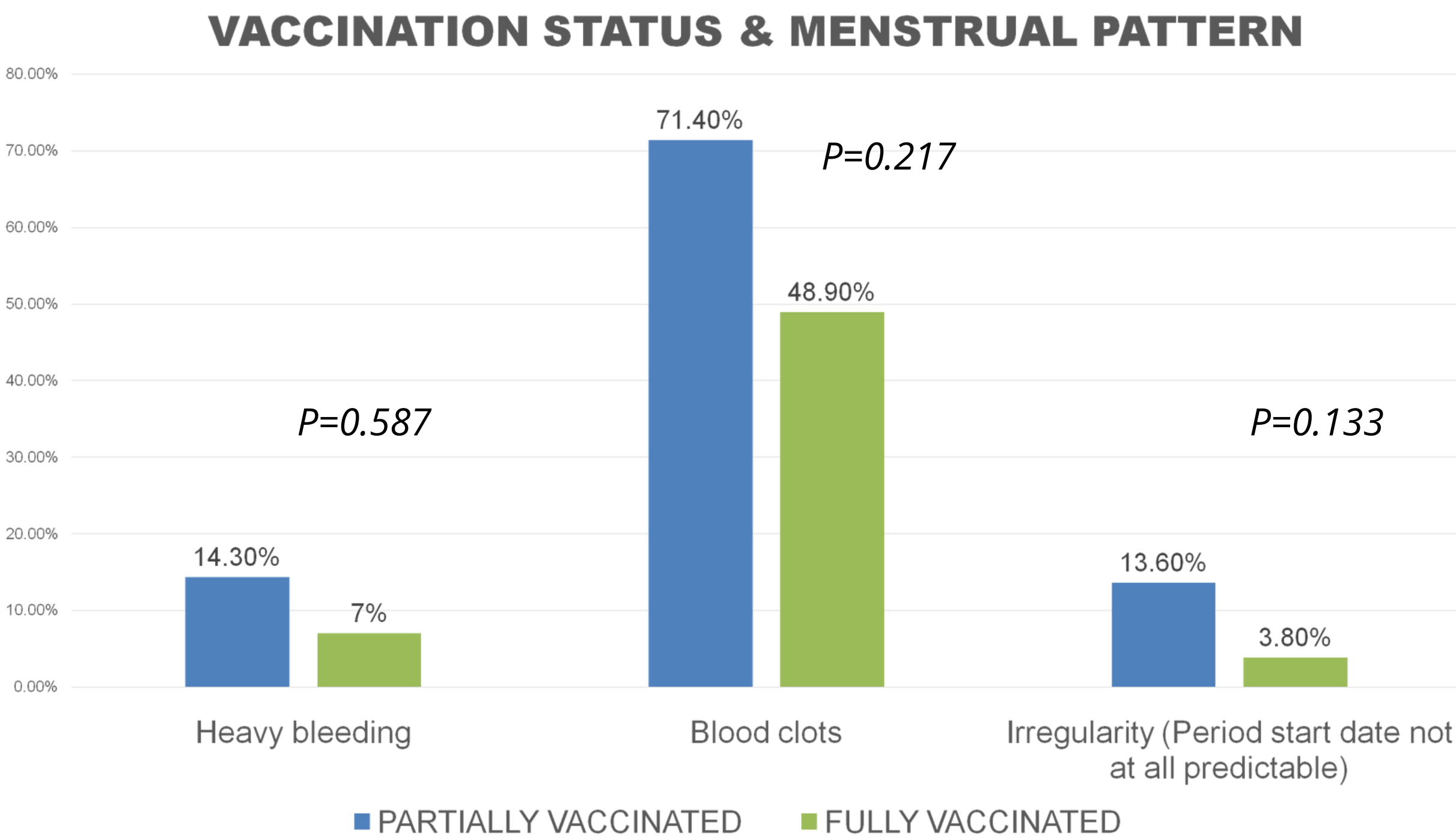


OBSERVATIONS & RESULTS

The final sample size of vaccinated individuals was 100, of which 73% received Covishield, 26% Covaxin and remaining 1% Sputnik-V. The mean age of participants was 22 years, most of them were students (74%) and belonging to upper socioeconomic class (89%).



The univariable analysis showed that heavy bleeding and menstrual irregularity was reported after both first and second dose of vaccination but it was not statistically associated with any particular dose. (P=0.587 for reported heavy bleeding, P=0.217 for blood clots and P=0.133 for irregularity) . Heavy bleeding, passage of blood clots or menstrual irregularity did not have any association with brand of vaccine administered i.e., Covishield or Covaxin (P=0.158 for heavy bleeding, P=0.575 for blood clots and P=0.336 for menstrual irregularity).



CONCLUSION

- Heavy bleeding and menstrual irregularity were commonly present following COVID-19 vaccination
- One in 3 women passed blood clots during menstruation
- 4% women refrained from recommending vaccine to others because of above changes
- Larger prospective studies with extended follow up are needed to fully understand post vaccination menstrual disturbances